Permit #3332

AT&T Services, Inc.
PO Box 5095
Rm 4W200M
San Ramon, CA 94583

T: 925.277.6153
F: 678.393.6800
www.att.com

October 17, 2017

Mr. Isreal Tavarez
Air Quality Program
Albuquerque Environmental Health Department
PO Box 1293
Albuquerque, NM 87103

RE: Application for Emergency Generator with NSPS IIII Diesel Engine at AT&T's Desert Greens Golf Course Cell Tower

Dear Mr. Tavarez:

On behalf of New Cingular Wireless PCS, LLC dba AT&T Mobility (referred to herein as "AT&T"), we are submitting the enclosed Construction Permit application package to the City of Albuquerque's Air Quality Program (AQP). The Desert Greens Golf Course AT&T cell tower facility located at 10035 Country Club NW in Albuquerque will have a 79 hp Tier 3 diesel-fired engine.

Enclosed with this letter are the applicable AQP Construction Permit application forms, supporting information, aerial photo maps of the location, proof of required public notice as well as emission calculations.

AT&T appreciates the AQP's review of this Construction Permit application package which has been prepared by the local Trinity Consultants Albuquerque office. If you have any questions, or need further information, please do not hesitate to contact me at (925) 277-6153.

Sincerely,

AT&T SERVICES, INC.

Valerie Ingraham
Environment, Health and Safety Manager

City of Albuquerque

Environmental Health Department
Air Quality Program

Permit Application Checklist

Any person seeking a permit under 20.11.41 NMAC, Authority-to-Construct Permits, shall do so by filing a written application with the Department. Prior to ruling a submitted application complete each application submitted shall contain the required items listed below. **This checklist must be returned with the application.**

Applications that are ruled incomplete because of missing information will delay any determination or the issuance of the permit. The Department reserves the right to request additional relevant information prior to ruling the application complete in accordance with 20.11.41 NMAC.

All applicants shall:

1. ☐ Fill out and submit the *Pre-permit Application Meeting Request* form
   a. ☐ Attach a copy to this application
   N/A – Pre-Permit Application Meeting has been waived by the Environmental Health Department.

2. ☐ Attend the pre-permit application meeting
   a. ☐ Attach a copy of the completed *Pre-permit Application Meeting Checklist* to this application
   N/A – Pre-Permit Application Meeting has been waived by the Environmental Health Department.

3. ☑ Provide public notice to the appropriate parties
   a. ☑ Attach a copy of the completed *Notice of Intent to Construct* form to this form
   Neighborhood Association(s):
   Piedras Marcadas
   Paradise Hills Civic Association
   Arroyo Del Sol Condominium Association Incorporated
   Richland Hills Homeowners Association

   Coalition(s):
   Westside Coalition of Neighborhood Associations

   b. ☑ Attach a copy of the completed *Public Sign Notice Guideline* form

4. Fill out and submit the *Permit Application.* All applications shall:

   A. ☑ be made on a form provided by the Department. Additional text, tables, calculations or clarifying information may also be attached to the form.

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C. ☑ contain the applicant's name, address, and the names and addresses of all other owners or operators of the emission sources.

D. ☑ contain the name, address, and phone number of a person to contact regarding questions about the facility.

E. ☑ indicate the date the application was completed and submitted

F. ☑ contain the company name, which identifies this particular site.

G. ☑ contain a written description of the facility and/or modification including all operations affecting air emissions.

H. ☑ contain the maximum and standard operating schedules for the source after completion of construction or modification in terms of hours per day, days per week, and weeks per year.

I. ☑ provide sufficient information to describe the quantities and nature of any regulated air contaminant (including any amount of a hazardous air pollutant) that the source will emit during:

- Normal operation
- Maximum operation
- Abnormal emissions from malfunction, start-up and shutdown

J. ☑ include anticipated operational needs to allow for reasonable operational scenarios to avoid delays from needing additional permitting in the future.

K. ☑ contain a map, such as a 7.5-minute USGS topographic quadrangle, showing the exact location of the source; and include physical address of the proposed source.

L. ☑ contain an aerial photograph showing the proposed location of each process equipment unit involved in the proposed construction, modification, relocation, or technical revision of the source except for federal agencies or departments involved in national defense or national security as confirmed and agreed to by the department in writing.

M. ☑ contain the UTM zone and UTM coordinates.

N. ☑ include the four digit Standard Industrialized Code (SIC) and the North American Industrial Classification System (NAICS).

O. ☑ contain the types and **potential emission rate** amounts of any regulated air contaminants the new source or modification will emit. Complete appropriate sections of the application; attachments can be used to supplement the application, but not replace it.

P. ☑ contain the types and **controlled** amounts of any regulated air contaminants the new source or modification will emit. Complete appropriate sections of the application; attachments can be used to supplement the application, but not replace it.

Q. ☑ contain the basis or source for each emission rate (include the manufacturer's specification sheets, AP-42 Section sheets, test data, or other data when used as the source).

R. ☑ contain all calculations used to estimate **potential emission rate** and **controlled** emissions.

S. ☐ contain the basis for the estimated control efficiencies and sufficient engineering data for verification of the control equipment operation, including if necessary, design drawings, test reports, and factors which affect the normal operation (e.g. limits to normal operation).
N/A – The engine is not equipped with an air pollution control device.

T. ☑ contain fuel data for each existing and/or proposed piece of fuel burning equipment.
This engine uses #2 ultra-low sulfur diesel fuel that is commercially available.

U. ☑ contain the anticipated maximum production capacity of the entire facility and the requested production capacity after construction and/or modification.
The *emergency generator has a capacity of 50 kW and the diesel engine will have a capacity of 79 horsepower. The facility will operate for a maximum of 500 hours per year.*

V. ☑ contain the stack and exhaust gas parameters for all existing and proposed emission stacks.

W. ☐ provide an ambient impact analysis using a atmospheric dispersion model approved by the US Environmental Protection Agency (EPA), and the Department to demonstrate compliance with the ambient air quality standards for the City of Albuquerque and Bernalillo County (See 20.11.01 NMAC). If you are modifying an existing source, the modeling must include the emissions of the entire source to demonstrate the impact the new or modified source(s) will have on existing plant emissions.
N/A – An ambient impact analysis is not required for a standby emergency generator.

X. ☐ contain a preliminary operational plan defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown.
N/A – The emergency generator will only be operated for testing, routine maintenance, or during the loss of commercial power.

Y. ☐ contain a process flow sheet, including a material balance, of all components of the facility that would be involved in routine operations. Indicate all emission points, including fugitive points.
N/A – Facility consists solely of a diesel-fired engine with associated fuel tank and generator. Emissions from this site are from the combustion of diesel fuel.

Z. ☐ contain a full description, including all calculations and the basis for all control efficiencies presented, of the equipment to be used for air pollution control. This

shall include a process flow sheet or, if the Department so requires, layout and assembly drawings, design plans, test reports and factors which affect the normal equipment operation, including control and/or process equipment operating limitations.
N/A – The engine is not equipped with an air pollution control device.

AA. ☐ contain description of the equipment or methods proposed by the applicant to be used for emission measurement.
N/A –EPA Certificate of Conformity provided in lieu of stack testing the emergency generator engine.

BB. ☑ be signed under oath or affirmation by a corporate officer, authorized to bind the company into legal agreements, certifying to the best of his or her knowledge the truth of all information submitted.

City of Albuquerque

Environmental Health Department
Air Quality Program

Permit Application Review Fee Instructions

All source registration, authority-to-construct, and operating permit applications for stationary or portable sources shall be charged an application review fee according to the fee schedule in 20.11.2 NMAC. These filing fees are required for both new construction, reconstruction, and permit modifications applications. Qualified small businesses as defined in 20.11.2 NMAC may be eligible to pay one-half of the application review fees and 100% of all applicable federal program review fees.

Please fill out the permit application review fee checklist and submit with a check or money order payable to the "City of Albuquerque Fund 242" and either:

1. be delivered in person to the Albuquerque Environmental Health Department, 3rd floor, Suite 3023 or Suite 3027, Albuquerque-Bernalillo County Government Center, south building, One Civic Plaza NW, Albuquerque, NM or,

2. mailed to Attn: Air Quality Program, Albuquerque Environmental Health Department, P.O. Box 1293, Albuquerque, NM 87103.

The department will provide a receipt of payment to the applicant. The person delivering or filing a submittal shall attach a copy of the receipt of payment to the submittal as proof of payment Application review fees shall not be refunded without the written approval of the manager. If a refund is requested, a reasonable professional service fee to cover the costs of staff time involved in processing such requests shall be assessed. Please refer to 20.11.2 NMAC (effective January 10, 2011) for more detail concerning the "Fees" regulation as this checklist does not relieve the applicant from any applicable requirement of the regulation.

City of Albuquerque

Environmental Health Department
Air Quality Program
Permit Application Review Fee Checklist

Please completely fill out the information in each section. Incompleteness of this checklist may result in the Albuquerque Environmental Health Department not accepting the application review fees. If you should have any questions concerning this checklist, please call 768-1972.

I. COMPANY INFORMATION:

Company Name	New Cingular Wireless PCS, LLC dba AT&T Mobility		
Company Address	PO Box 5095, Rm 4W200M, San Ramon, CA 94583		
Facility Name	Desert Greens Golf Course Cell Tower, FA #10114056		
Facility Address	10035 Country Club Lane NW, Albuquerque, NM 87114 (un-manned)		
Contact Person	Valerie Ingraham, AT&T Services, Inc.		
Contact Person Phone Number	(925) 277-6153		
Are these application review fees for an existing permitted source located within the City of Albuquerque or Bernalillo County?		**Yes**	**No**
If yes, what is the permit number associated with this modification?		**N/A**	
Is this application review fee for a Qualified Small Business as defined in 20.11.2 NMAC? (See Definition of Qualified Small Business on Page 4)		**Yes**	**No**

II. STATIONARY SOURCE APPLICATION REVIEW FEES:

If the application is for a new stationary source facility, please check all that apply. If this application is for a modification to an existing permit please see Section III.

Check All That Apply	Stationary Sources	Review Fee	Program Element
Stationary Source Review Fees (Not Based on Proposed Allowable Emission Rate)			
	Source Registration required by 20.11.40 NMAC	$ 549.00	2401
	A Stationary Source that requires a permit pursuant to 20.11.41 NMAC or other board regulations and are not subject to the below proposed allowable emission rates	$ 1,097.00	2301
X	*Not Applicable*	*See Sections Below*	
Stationary Source Review Fees (Based on the Proposed Allowable Emission Rate for the single highest fee pollutant)			
X	Proposed Allowable Emission Rate Equal to or greater than 1 tpy and less than 5 tpy	$ 823.00	2302
	Proposed Allowable Emission Rate Equal to or greater than 5 tpy and less than 25 tpy	$ 1,646.00	2303
	Proposed Allowable Emission Rate Equal to or greater than 25 tpy and less than 50 tpy	$ 3,291.00	2304
	Proposed Allowable Emission Rate Equal to or greater than 50 tpy and less than 75 tpy	$ 4,937.00	2305
	Proposed Allowable Emission Rate Equal to or greater than 75 tpy and less than 100 tpy	$ 6,582.00	2306
	Proposed Allowable Emission Rate Equal to or greater than 100 tpy	$8,228.00	2307
	Not Applicable	*See Section Above*	
Federal Program Review Fees (In addition to the Stationary Source Application Review Fees above)			
X	40 CFR 60 - "New Source Performance Standards" (NSPS)	$ 1,097.00	2308
	40 CFR 61 - "Emission Standards for Hazardous Air Pollutants (NESHAPs)	$ 1,097.00	2309
	40 CFR 63 - (NESHAPs) Promulgated Standards	$ 1,097.00	2310
	40 CFR 63 - (NESHAPs) Case-by-Case MACT Review	$ 10,971.00	2311
	20.11.61 NMAC, Prevention of Significant Deterioration (PSD) Permit	$ 5,485.00	2312
	20.11.60 NMAC, Non-Attainment Area Permit	$ 5,485.00	2313
	Not Applicable	*Not Applicable*	

III. MODIFICATION TO EXISTING PERMIT APPLICATION REVIEW FEES:

If the permit application is for a modification to an existing permit, please check all that apply. If this application is for a new stationary source facility, please see Section II.

Check All That Apply	Modifications	Review Fee	Program Element
Modification Application Review Fees (Not Based on Proposed Allowable Emission Rate)			
	Proposed modification to an existing stationary source that requires a permit pursuant to 20.11.41 NMAC or other board regulations and are not subject to the below proposed allowable emission rates	$ 1,097.00	2321
X	*Not Applicable*	*See Sections Below*	
Modification Application Review Fees (Based on the Proposed Allowable Emission Rate for the single highest fee pollutant)			
	Proposed Allowable Emission Rate Equal to or greater than 1 tpy and less than 5 tpy	$ 823.00	2322
	Proposed Allowable Emission Rate Equal to or greater than 5 tpy and less than 25 tpy	$ 1,646.00	2323
	Proposed Allowable Emission Rate Equal to or greater than 25 tpy and less than 50 tpy	$ 3,291.00	2324
	Proposed Allowable Emission Rate Equal to or greater than 50 tpy and less than 75 tpy	$ 4,937.00	2325
	Proposed Allowable Emission Rate Equal to or greater than 75 tpy and less than 100 tpy	$ 6,582.00	2326
	Proposed Allowable Emission Rate Equal to or greater than 100 tpy	$ 8,228.00	2327
X	*Not Applicable*	*See Section Above*	
Major Modifications Review Fees (In addition to the Modification Application Review Fees above)			
	20.11.60 NMAC, Permitting in Non-Attainment Areas	$ 5,485.00	2333
	20.11.61 NMAC, Prevention of Significant Deterioration	$ 5,485.00	2334
X	*Not Applicable*	*Not Applicable*	
Federal Program Review Fees (This section applies only if a Federal Program Review is triggered by the proposed modification) (These fees are in addition to the Modification and Major Modification Application Review Fees above)			
	40 CFR 60 - "New Source Performance Standards" (NSPS)	$ 1,097.00	2328
	40 CFR 61 - "Emission Standards for Hazardous Air Pollutants (NESHAPs)	$ 1,097.00	2329
	40 CFR 63 - (NESHAPs) Promulgated Standards	$ 1,097.00	2330
	40 CFR 63 - (NESHAPs) Case-by-Case MACT Review	$ 10,971.00	2331
	20.11.61 NMAC, Prevention of Significant Deterioration (PSD) Permit	$ 5,485.00	2332
	20.11.60 NMAC, Non-Attainment Area Permit	$ 5,485.00	2333
X	*Not Applicable*	*Not Applicable*	

IV. ADMINISTRATIVE AND TECHNICAL REVISION APPLICATION REVIEW FEES:

If the permit application is for an administrative or technical revision of an existing permit issued pursuant to 20.11.41 NMAC, please check one that applies.

Check One	Revision Type	Review Fee	Program Element
	Administrative Revisions	$ 250.00	2340
	Technical Revisions	$ 500.00	2341
X	*Not Applicable*	*See Sections II, III or V*	

V. PORTABLE STATIONARY SOURCE RELOCATION FEES:

If the permit application is for a portable stationary source relocation of an existing permit, please check one that applies.

Check One	Portable Stationary Source Relocation Type	Review Fee	Program Element
	No New Air Dispersion Modeling Required	$ 500.00	2501
	New Air Dispersion Modeling Required	$ 750.00	2502
X	*Not Applicable*	*See Sections II, III or V*	

VI. Please submit a check or money order in the amount shown for the total application review fee.

Section Totals	Review Fee Amount
Section II Total	$1,920
Section III Total	$
Section IV Total	$
Section V Total	$
Total Application Review Fee	**$**

I, the undersigned, a responsible official of the applicant company, certify that to the best of my knowledge, the information stated on this checklist, give a true and complete representation of the permit application review fees which are being submitted. I also understand that an incorrect submittal of permit application reviews may cause an incompleteness determination of the submitted permit application and that the balance of the appropriate permit application review fees shall be paid in full prior to further processing of the application.

Signed this 17 **day of** OCTOBER **20** 17

Don Harris
Print Name

Assistant Secretary
Print Title

Signature

Definition of Qualified Small Business as defined in 20.11.2 NMAC:
"Qualified small business" means a business that meets all of the following requirements:

(1) a business that has 100 or fewer employees;
(2) a small business concern as defined by the federal Small Business Act;
(3) a source that emits less than 50 tons per year of any individual regulated air pollutant, or less than 75 tons per year of all regulated air pollutants combined; and
(4) a source that is not a major source or major stationary source.

Note: Beginning January 1, 2011, and every January 1 thereafter, an increase based on the consumer price index shall be added to the application review fees. The application review fees established in Subsection A through D of 20.11.2.18 NMAC shall be adjusted by an amount equal to the increase in the consumer price index for the immediately-preceding year. Application review fee adjustments equal to or greater than fifty cents ($0.50) shall be rounded up to the next highest whole dollar. Application review fee adjustments totaling less than fifty cents ($0.50) shall be rounded down to the next lowest whole dollar. The department shall post the application review fees on the city of Albuquerque environmental health department air quality program website.

City of Albuquerque
Environmental Health Department
Air Quality Program
Please mail this application to **P.O. Box 1293, Albuquerque, NM 87103**
or hand deliver between 8:00am - 5:00pm Monday - Friday to:
3rd Floor, Suite 3023 - One Civic Plaza NW, Albuquerque, New Mexico 87103
(505) 768 – 1972 aqd@cabq.gov (505) 768 - 1977 (Fax)

20.11.41 NMAC Air Quality Permit Application
For
EMERGENCY DIESEL ENGINES
SUBJECT TO FEDERAL (USEPA) NEW SOURCE PERFORMANCE STANDARDS (NSPS)

Section 1. General Information

Date Submitted: 10 / 17 / 2017

1. Company Name: New Cingular Wireless PCS, LLC dba AT&T Mobility Ph: (925) 277-6153 Email: g43913@att.com
2. Company Address: PO Box 5095, Rm 4W200M City: San Ramon State: CA Zip: 94583
3. Company Mailing Address (if different): Same Zip:
4. Company Contact: Valerie Ingraham Title: Environment, Health and Safety Manager Ph: (925) 277-6153 Email: g43913@att.com
5. Facility Name: Desert Greens Golf Course Cell Tower Facility Hours: Continuous operation, unmanned
6. Facility Address: 10035 Country Club Lane NW City: Albuquerque State: NM Zip: 87114
7. Local Business Mailing Address (if different): Email: g43913@att.com
8. Facility Environmental Contact: Valerie Ingraham Title: Environment, Health and Safety Manager Ph: (925) 277-6153 Fax: N/A
9. Email: g43913@att.com 10. Type of Business: Wireless Telecommunication Cell Tower
11. Environmental Consultant Name and Email Address (if applicable): Gina Hicks of Trinity Consultants: ghicks@trinityconsultants.com
12. North American Industry Classification System (NAICS): 517210 13. Standard Industrial Classification (SIC): 4812
14. UTM coordinates (required): Zone 13S, 345,986 mE, 3,896,508 mN 15. Facility Ph: N/A – Unmanned Fax: N/A – Unmanned
16. Billing Contact: Valerie Ingraham Title: Environment, Health and Safety Manager Ph: (925) 277-6153 Fax: N/A
17. Billing Address: PO Box 5095, Rm 4W200M City: San Ramon State: CA Zip: 94583
18. Is this an Initial Installation: OR Modification of an Existing Unit: Initial Installation 19. Current or requested operating hrs/yr: 500 hours/year
20. Is engine or genset installed: _ Yes X No If yes, date installed: N/A If no, anticipated installation date: After issuance of permit

Provide an engine spec sheet and a detailed site plan or plat of the property where engine or genset is to be installed.

Section 2. Compression Ignition Internal Combustion Engine for Stationary Emergency Engines

Provide engine rating in horsepower (Hp) as determined by manufacturer's spec sheet.

Process Equipment Unit	Manufacturer	Model Number	Serial Number	Manufacturer Date	Modification Date	Engine Size In Horsepower (Hp)	Size of Generator In kilowatts (kW)
Example Engine	Unigen	B-2500	A56732195C-222	02/2008	N/A	375	N/A
Example Generator	Gentor	A56789B234	XYZ13247586	02/2008	N/A	N/A	280 kW
Engine	Generac	F4GE9455B*J	TBD	2017	N/A	79	N/A
Generator	Generac	SD050	TBD	2017	N/A	N/A	50

Section 3. Stack and Emissions Information

Stack Height Above Ground & Stack Diameter In Feet		Stack Temperature	Stack Flow Rate & Exit Direction
Example 18 feet – Height	0.42 feet – Diameter	625 ^{0}F	3,000 ft^3/min – Flow Rate Exit - upward
Approximately 8.6 ft - Height	0.25 ft – Diameter	850 ^{0}F	497 ft^3/min – Flow Rate Exit – upward

Section 4. Potential Emission Rate (Uncontrolled Emissions)

Use manufacturer's data, compliance performance stack test data or the attached USEPA Emission Factors in grams per horsepower-hour (g/Hp-hr) associated with the Engine's Horsepower Rating and Model Year

Model Year	Pollutant	Emission Factors g/Hp-hr	TIMES	Actual Engine Hp	EQUALS	Emission In Grams Per Hour	DIVIDE	Grams Per Pound	EQUALS	Emission in Pounds Per Hour	TIMES	Potential Operating Hours Per Year	DIVIDE	Pounds Per Ton	EQUALS	Emission In Tons Per Year
EXAMPLE 2008	CO	2.6	x	375 Hp	=	975	÷	453.6	=	2.15	x	8,760	÷	2,000	=	9.4
	NO_x	0.3	x		=	112.5	÷		=	0.25	x	8,760	÷	2,000	=	1.1
	NMHC	0.14	x		=	52.5	÷		=	0.12	x	8,760	÷	2,000	=	0.53
	*NOx + NMHC	3.0	x		=	1,125	÷		=	2.48	x	8,760	÷	2,000	=	10.86
	**SO_x	0.93	x		=	348.8	÷		=	0.77	x	8,760	÷	2,000	=	3.37
	***PM	0.15	x		=	56.25	÷		=	0.12	x	8,760	÷	2,000	=	0.53
2017	CO	3.69	x	79	=	292	÷	453.6	=	0.64	x	8,760	÷	2,000	=	2.8
	NO_x	3.32	x		=	262	÷		=	0.58	x	8,760	÷	2,000	=	2.5
	NMHC	0.17	x		=	14	÷		=	0.030	x	8,760	÷	2,000	=	0.13
	*NOx + NMHC	3.49	x		=	276	÷		=	0.61	x	8,760	÷	2,000	=	2.7
	**SO_x	0.93	x		=	73	÷		=	0.16	x	8,760	÷	2,000	=	0.71
	***PM	0.29	x		=	23	÷		=	0.051	x	8,760	÷	2,000	=	0.22

* If the USEPA Emission Factor or manufacturer's data is given as combined NOx + NMHC, also provide individual emission factors for NOx and NMHC from the manufacturer or other approved methodology for estimating individual emission factors.

A breakdown of 95% NOx and 5% NMHC was assumed based on CARB memo dated June 28, 2004.

** Manufacturer's SOx factor shall be used when larger than the USEPA Emission Factor.

As no manufacturer SOX factor was provided, the emission factor from AP-42 Table 3.3-1 was used.

*** Particulate Matter (PM) emissions are considered to be < 1μm (micron). Therefore, PM emissions also reflect PM_{10} & $PM_{2.5}$.

Section 5. Potential to Emit (Requested allowable rate) (Controlled Emissions)

Transfer each pollutant Emission in Pounds Per Hour from column above to the Emission in Pounds Per Hour column below. Complete the equation after inserting the Requested Operating Hours Per Year. Pound Per Hour rate for each pollutant must be met if performance testing is requested.

Pollutant	Emission in Pounds Per Hour	TIMES	Requested Operating Hours Per Year	EQUALS	Pounds Per Year	DIVIDE	Pounds Per Ton	EQUALS	Emission In Tons Per Year
EXAMPLE CO	2.15	x	200	=	430	÷	2,000	=	0.22
NO_x		x		=		÷		=	
NMHC		x		=		÷		=	
*NOx + NMHC	2.48	x	200	=	496	÷	2,000	=	0.25
**SO_x	0.77	x	200	=	154	÷	2,000	=	0.08
***PM	0.12	x	200	=	24	÷	2,000	=	0.012
CO	0.64	x	500	=	321	÷	2,000	=	0.16
NO_x	0.58	x		=	289	÷	2,000	=	0.14
NMHC	0.030	x		=	15	÷	2,000	=	0.0076
*NOx + NMHC	0.61	x		=	304	÷	2,000	=	0.15
**SO_x	0.16	x		=	81	÷	2,000	=	0.040
***PM	0.051	x		=	25	÷	2,000	=	0.013

I, the undersigned, a responsible officer of the applicant company, certify that to the best of my knowledge, the information stated on this application, together with associated drawings, specifications, and other data, give a true and complete representation of the existing, modified existing, or planned new stationary source with respect to air pollution sources and control equipment. I also understand that any significant omissions, errors, or misrepresentations in these data will be cause for revocation of part or all of the resulting source registration and air quality permit.

Don Harris
Print Name

Sign Name

Assistant Secretary
Title

10 / 17 /2017
Date

Federal New Source Performance Standards (NSPS) for Stationary EMERGENCY Diesel Engines (40CFR 60.4202 & 60.4205) in Grams Per Horsepower Hour (g/hp-hr) for Engines with a displacement of < 10 Liters Per Cylinder

Horsepower / kW	Tier (CFR Section)	Year Of Manufacture	CO (g/hp-hr)	NOx[1] (g/hp-hr)	NMHC[1] (g/hp-hr)	NOx + NMHC[1] (g/hp-hr)	SOx[2] (g/hp-hr)	Particulate Matter (PM) (g/hp-hr)	Notes
< 11 Hp < 8 kW	1 (60.4205)	Pre 2007[3]	6.0			7.8	0.93*	0.75	* Use AP-42 Section 3.3 SOx factors if <600Hp and Section 3.4 if >600Hp, as shown on this table, or manufacturer's factors. Manufacturer's factors shall be used when larger than AP-42 factors.
	2 (60.4202) - (89.112)	2007	6.0			5.6	0.93*	0.6	
	4 (60.4202)	2008 +	6.0			5.6	0.93*	0.3	
≥ 11 Hp < 25 Hp	1 (60.4205)	Pre 2007[3]	4.9			7.1	0.93*	0.6	
	2 (60.4202) - (89.112)	2007	4.9			5.6	0.93*	0.6	
≥ 8 kW < 19 kW	4 (60.4202)	2008 +	4.9			5.6	0.93*	0.3	
≥ 25 Hp < 50 Hp	1 (60.4205)	Pre 2007[3]	4.1			7.1	0.93*	0.6	
	2 (60.4202) - (89.112)	2007	4.1			5.6	0.93*	0.45	
≥ 19 kW < 37 kW	4 (60.4202)	2008 +	4.1			5.6	0.93*	0.22	
≥ 50 Hp < 100 Hp	1 (60.4205)	Pre 2007[3]	3.03**	6.9	1.12**		0.93*	1.0**	** Use AP-42 Section 3.3 factors for CO, NMHC, and PM as shown on this table, or manufacturer's factors. Manufacturer's factors shall be used when larger than AP-42 factors.
	2 (60.4202) - (89.112)	2007	3.7			5.6	0.93*	0.3	
≥ 37 kW < 75 kW	3 (60.4202) - (89.112)	2008 +	3.7			3.5	0.93*	0.3	
≥ 100 Hp < 175 Hp	1 (60.4205)	Pre 2007[3]	3.03**	6.9	1.12**		0.93*	1.0**	
≥ 75 kW < 130 kW	3 (60.4202) - (89.112)	2007 +	3.7			3.0	0.93*	0.22	
≥ 175 Hp ≤ 750 Hp	1 (60.4205)	Pre 2007[3]	8.5	6.9	1.0		0.93*for < 600Hp or 3.67* for > 600Hp	0.4	
≥ 130 kW ≤ 560 kW	3 (60.4202) - (89.112)	2007 +	2.6			3.0		0.15	
> 750 Hp	1 (60.4205)	Pre 2007[3]	8.5	6.9	1.0			0.4	
	3 (60.4202) - (89.112)	2007***	2.6			4.8	3.67	0.15	
> 560 kW		*** 2007 – 2010 Model Year Engines > 3,000 Hp shall meet the Pre 2007 standards and beginning with the 2011 model year, Engines > 3,000 Hp shall meet the 2007 standards							

[1] When an emission factor is given for combined NOx + NMHC, individual emission factors for NOx and NMHC must be obtained from the manufacturer.

[2] SOx emission factors shall be based on AP-42 Section 3.3 for engines less than (<) 600 Hp and Section 3.4 for engines greater than (>) 600 Hp, or manufacturer's factors since SOx emission standards were not established for non-road diesel engine rulemaking. Manufacturer's factors shall be used when larger than the AP-42 factors. For engines > 600 Hp, the "S" multiplier is 0.05 (5%) if calculating SOx to reflect the current low sulfur diesel fuel standard of 500 ppm. Percent sulfur in diesel fuel transitions to Ultra Low Sulfur Diesel (15 ppm) by October 2010. For engines operated after October 2010, with a year of manufacture of 2010 or later, the "S" multiplier is 0.0015 (0.15%) if calculating SOx to reflect the proposed new standard.

[3] Pre 2007 means each stationary Compression Ignition Internal Combustion Engine (CI ICE) whose construction, modification or reconstruction commenced after July 11, 2005. The date of construction is the date the engine is ordered by the owner or operator. Stationary CI ICE manufactured prior to April 1, 2006, that are not fire pump engines are not subject to NSPS, unless the engines are modified or reconstructed after July 11, 2005. A modified or reconstructed CI ICE must meet the emission standards for the model year in which the engine was originally new, not the year the engine is modified or reconstructed (Preamble language – Section II. E).

Emissions Calculations Sheet

AT&T Cell Tower Emergency Backup Generator

50 KW Emergency Generator with 79 hp Tier 3 NSPS Diesel Engine

Engine Power	79	hp
Annual Operation	8760	hr/yr

UNCONTROLLED EMISSIONS (PER)

Pollutant	Emis. Factor (g/Hp-Hr)	Emissions Rate (g/Hr)	Emissions Rate (lb/Hr)	Annual Emissions (Tons/Yr)	Source of Emission Factor
CO*	3.69	292	0.64	2.8	NSPS Limit
NOx	3.32	262	0.58	2.5	95% of NOX+NMHC NSPS Limit
VOC/HC	0.17	14	0.030	0.13	5% of NOX+NMHC Limit
NOx+NMHC	3.49	276	0.61	2.7	NSPS Limit
SOx**	0.93	73	0.16	0.71	Emission factor for emergency diesel engines subject to NSPS provided by the City of Albuquerque Air Quality Program.
PM*	0.29	23	0.051	0.22	NSPS Limit

Annual Operation	500	hr/yr

CONTROLLED EMISSIONS

Pollutant	Emis. Factor (g/Hp-Hr)	Emissions Rate (g/Hr)	Emissions Rate (lb/Hr)	Annual Emissions (lb/Yr)	Annual Emissions (Tons/Yr)
CO*	3.69	292	0.64	321	0.16
NOx	3.32	262	0.58	289	0.14
VOC/HC	0.17	14	0.030	15	0.0076
NOx+HC	3.49	276	0.61	304	0.15
SOx**	0.93	73	0.16	81	0.040
PM*	0.29	23	0.051	25	0.013

Note:
Emission factors based on NSPS limits are set just below the NSPS limit to account for rounding.

GENERAC | INDUSTRIAL POWER

STATEMENT OF EXHAUST EMISSIONS
2017 FPT DIESEL FUELED GENERATOR

The measured emissions values provided here are proprietary to Generac and it's authorized dealers. This information may only be disseminated upon request, to regulatory governmental bodies for emissions permitting purposes or to specifying organizations as submittal data when expressly required by project specifications, and shall remain confidential and not open to public viewing. This information is not intended for compilation or sales purposes and may not be used as such, nor may it be reproduced without the expressed written permission of Generac Power Systems, Inc. The data provided shall not be meant to include information made public by Generac.

Generator Model:	**SD050**	EPA Certificate Number:	**HFPXL04.5DTD-001**
kW_e Rating:	**50**	CARB Certificate Number:	**Not Applicable**
Engine Family	**HFPXL04.5DTD**	Emission Standard Category:	**Tier 3**
Engine Model:	**F4GE9455B*J**	Certification Type:	**Stationary Emergency CI**
Rated Engine Power (BHP)*:	**79**		**(40 CFR Part 60 Subpart IIII)**
Fuel Consumption (gal/hr)*:	**5.05**		
Aspiration:	**Turbocharged**		
Rated RPM:	**1800**		

*Engine Power and Fuel Consumption are declared by the Engine Manufacturer of Record and the U.S. EPA.

Emissions based on engine power of specific Engine Model.
(These values are actual composite weighted exhaust emissions results over the EPA 5-mode test cycle.)

CO	NOx + NMHC	PM	
1.30	**4.30**	**0.34**	Grams/kW-hr
1.00	**3.20**	**0.25**	Grams/bhp-hr

- The stated values are actual exhaust emission test measurements obtained from an engine representative of the type described above.
- Values based on 5mode testing are official data of record as submitted to regulatory agencies for certification purposes. Testing was conducted in accordance with prevailing EPA protocol, which is typically accepted by SCAQMD and other regional authorities.
- No emissions values provided above are to be construed as guarantees of emission levels for any given Generac generator unit.
- Generac Power Systems, Inc. reserves the right to revise this information without prior notice.
- Consult state and local regulatory agencies for specific permitting requirements.
- The emission performance data supplied by the equipment manufacturer is only one element required toward completion of the permitting and installation process. State and local regulations may vary on a case-by-case basis and local agencies must be consulted by the permit application/equipment owner prior to equipment purchase or installation. The data supplied herein by Generac Power Systems cannot be construed as a guarantee of installability of the generating set.

SD050 | 4.5L | 50 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

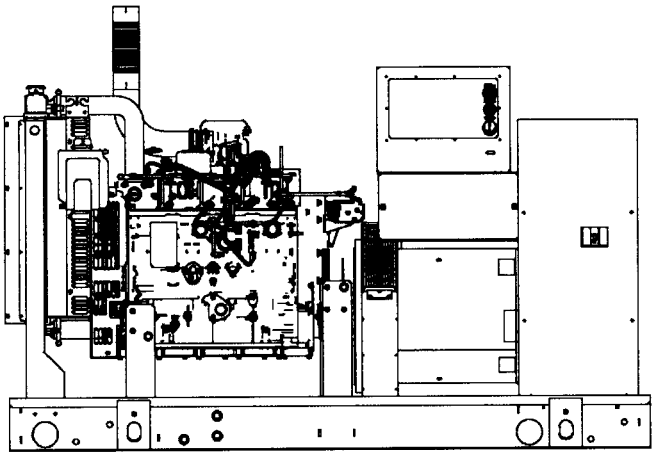
GENERAC | INDUSTRIAL POWER

STANDBY POWER RATING

50 kW, 63 kVA, 60 Hz

PRIME POWER RATING*

45 kW, 56 kVA, 60 Hz



*Built in the USA using domestic and foreign parts

*EPA Certified Prime ratings are not available in the U.S. or its Territories.

**Certain options or customization may not hold certification valid.

Image used for illustration purposes only

CODES AND STANDARDS

Generac products are designed to the following standards:

UL2200, UL508, UL142, UL498

NFPA70, 99, 110, 37

NEC700, 701, 702, 708

ISO9001, 8528, 3046, 7637, Pluses #2b, 4

NEMA ICS10, MG1, 250, ICS6, AB1

ANSI C62.41

POWERING AHEAD

For over 50 years, Generac has led the industry with innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

SD050 | 4.5L | 50 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

STANDARD FEATURES

ENGINE SYSTEM

General

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel flexible exhaust connection
- Hospital Grade Silencer
- Factory Filled Oil & Coolant
- Radiator Duct Adapter (open set only)

Fuel System

- Flexible fuel lines
- Primary and secondary fuel filters

Cooling System

- Closed Coolant Recovery System
- UV/Ozone resistant hoses
- Factory-Installed Radiator
- 50/50 Ethylene glycol antifreeze
- Coolant Heater with Isolation Valves

Engine Electrical System

- Battery charging alternator
- Battery cables
- Battery tray
- Solenoid activated starter motor
- Rubber-booted engine electrical connections

ALTERNATOR SYSTEM

- Class H insulation material
- 2/3 Pitch
- Skewed Stator
- Permanent Magnet Excitation
- Sealed Bearings
- Amortisseur winding
- Full load capacity alternator

GENERATOR SET

- Separation of circuits—high/low voltage
- Separation of circuits—multiple breakers
- Standard Factory Testing
- 2 Year Limited Warranty (Standby rated Units)
- 1 Year Limited Warranty (Prime rated units)

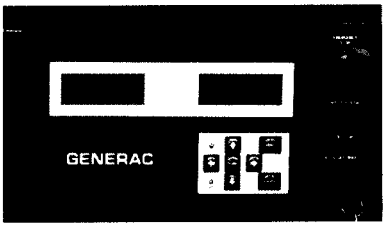
ENCLOSURE (IF SELECTED)

- Rust-proof fasteners with nylon washers to protect finish
- High performance sound-absorbing material (L1 & L2)
- Gasketed doors
- Stamped air-intake louvers
- Vertical Discharge Hoods
- Polished steel lift on door hinges
- Polished steel lockable handles

TANKS (IF SELECTED)

- UL 142
- Double wall
- Vents
- Sloped top
- Sloped bottom
- Factory pressure tested (2 psi)
- Rupture basin alarm
- Fuel level
- Check valve in supply and return lines
- Stainless hardware

CONTROL SYSTEM



Control Panel

- InteliGen NT Display
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable PLC
- RS-232/485
- Full System Status
- Utility Monitoring
- Low Fuel Pressure Indication
- 2-Wire Start Compatible
- Power Output (kW)
- kW Hours, Total
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/sealed Connectors
- Audible Alarms and Shutdowns
- Auto/O/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus protocol
- Predictive Maintenance algorithm
- Sealed Boards
- Password parameter adjustment protection
- Single point ground
- 15 channel data logging
- 20 msec high speed data logging
- Alarm information automatically comes up on the display

Alarms

- Oil Pressure (Pre-programmable Low Pressure Shutdown)
- Coolant Temperature (Pre-programmed High Temp Shutdown)
- Coolant Level (Pre-programmed Low Level Shutdown),
- Low Fuel Pressure Alarm
- Engine Speed (Pre-programmed Over speed Shutdown)
- Battery Voltage Warning
- Alarms & warnings time and date stamped
- Alarms & warnings for transient and steady state conditions
- Snap shots of key operation parameters during alarms & warnings
- Alarms and warnings spelled out (no alarm codes)

SD050 | 4.5L | 50 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

CONFIGURABLE OPTIONS

ENGINE SYSTEM

General

- O 50° C Ambient Cooling System
- O Heavy Duty Air Cleaner
- O Critical & Hospital Grade Silencers
- O CCV (Closed Crankcase Ventilation)

Fuel Electrical System

- O 10A & 20A UL battery charger
- O Battery Warmer

ALTERNATOR SYSTEM

- O Alternator Upsizing
- O Anti-Condensation Heater

CIRCUIT BREAKER OPTONS

- O Main Line Circuit Breaker
- O 2nd Main Line Circuit Breaker
- O Shunt Trip and Auxiliary Contact
- O Electronic Trip Breaker

GENERATOR SET

- O InteliMonitor Communications Software (English Only)
- O 8 Load Position Load Center
- O AC Electrical Lighting Package (ELP)
- O 5 Year Warranty
- O 5 Year Extended Warranty
- O Spring Isolators (Standard/Seismic)

ENCLOSURE

- O Weather Protected Enclosure
- O Level 1 Sound Attenuation
- O Level 2 Sound Attenuation
- O Steel Enclosure
- O Aluminum Enclosure
- O 150/180 MPH Wind Rating
- O Louvers with Gravity Dampers
- O Enclosure Heaters

TANKS (Size on Last page)

- O Electrical Fuel Level
- O Mechanical Fuel Level
- O 12 Hour Run Time
- O 24 Hour Run Time
- O Fuel Line Kits
- O Fuel Water Separator

CONTROL SYSTEM

- O NFPA 110 Compliant
- O Remote Relay Board (8 or 16)
- O Oil Temperature Sender with Indication Alarm
- O Remote E-Stop (Break Glass-Type, Surface Mount)
- O Remote E-Stop (Red Mushroom-Type, Surface Mount)
- O Remote E-Stop (Red Mushroom-Type, Flush Mount)
- O Remote Communication - Bridge
- O Remote Communication - Ethernet
- O 10A Run Relay, 12 outputs
- O Ground Fault Indication and Protection Functions

ENGINEERED OPTIONS

ENGINE SYSTEM

- O Fluid containment Pans/not plural
- O Oil Heater
- O Stainless Steel Hardware

ALTERNATOR SYSTEM

- O 3rd Breaker Systems
- O Unit Mounted Load Banks
- O Medium Voltage Alternators

CONTROL SYSTEM

- O Spare inputs (x4) / outputs (x4)
- O Battery Disconnect Switch

GENERATOR SET

- O Special Testing
- O 12 VDC Enclosure Lighting Kit
- O 24 VDC/120 VAC Enclosure Lighting Kit

ENCLOSURE

- O Motorized Dampers
- O Intrusion Alert Door Switch

TANKS

- O Overfill Protection Valve
- O UL2085 Tank
- O ULC S-601 Tank
- O Stainless Steel Tank
- O Special Fuel Tanks (MIDEQ and FL DEP/DERM, etc.)
- O Vent Extensions
- O Transfer Pumps and Controllers
- O Fuel Tank Heaters

RATING DEFINITIONS

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications. Power ratings in accordance with ISO 8528-1, Second Edition

SD050 | 4.5L | 50 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Iveco/FPT
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emissions Data Sheet
Cylinder #	4
Type	Diesel
Displacement - L (cu In)	4.5 (274)
Bore - mm (in)	105 (4.1)
Stroke - mm (in)	132 (5.2)
Compression Ratio	17.5:1
Intake Air Method	Turbocharged
Cylinder Head Type	2 Valve
Piston Type	Aluminum
Crankshaft Type	Forged Steel

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	+/- 0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full Flow
Crankcase Capacity - L (qts)	13.6 (14.4)

Cooling System

Cooling System Type	Closed
Water Pump	Belt Driven Centrifugal
Fan Type	Pusher
Fan Speed (rpm)	2538
Fan Diameter mm (in)	660.4 (26.0)
JW Coolant Heater Standard Wattage	1500
After Coolant Heater Standard Wattage	-
Coolant Heater Standard Voltage	120 VAC

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Specifications	ASTM
Fuel Filtering (microns)	5
Fuel Injection	Standadyne
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Engine Type	-
Fuel Supply Line mm (in)	(0.25) NPT
Fuel Return Line mm (in)	(0.25) NPT

Engine Electrical System

System Voltage	12 VDC
Battery Charging Alternator	Std
Battery Size	925 CCA
Battery Group	31
Battery Voltage	(1) - 12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	390
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5%
Telephone Interference Factor (TIF)	<50
Standard Excitation	Synchronous Brushless
Bearings	One-Pre Lubed & Sealed
Coupling	Direct, Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Regulation Accuracy (Steady State)	±0.25%

CODES AND STANDARDS COMPLIANCE (WHERE APPLICABLE)

NFPA 99	BS5514
NFPA 110	SAE J1349
ISO 8528-5	DIN6271
ISO 1708A.5	IEEE C62.41 TESTING
ISO 3046	NEMA ICS 1

SD050 | 4.5L | 50 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

OPERATING DATA

POWER RATINGS

		Standby
Single-Phase 120/240 VAC @1.0pf	50 kW	Amps: 208
Three-Phase 120/208 VAC @0.8pf	50 kW	Amps: 174
Three-Phase 120/240 VAC @0.8pf	50 kW	Amps: 151
Three-Phase 277/480 VAC @0.8pf	50 kW	Amps: 75

FUEL CONSUMPTION RATES*

Fuel Pump Lift - ft (m)
36 (900)

Total Fuel Pump Flow (Combustion + Return) - gph (lph)
13.6 gph

Diesel - gph (lph)	
Percent Load	gph (lph)
25%	1.15 (4.35)
50%	2.25 (8.52)
75%	3.21 (12.15)
100%	4.15 (15.75)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

Cooling Rating - Jacket Water		Standby
Coolant Flow per Minute	gpm (lpm)	32.7 (123.8)
Coolant System Capacity	gal (L)	4.5 (17.44)
Heat Rejection to Coolant	BTU/hr	121,000
Inlet Air - 40°C Cooling Package	cfm (m3/hr)	6,360 (180)
Inlet Air - 50°C Cooling Package	cfm	-
Maximum Additional Radiator Backpressure	in H_2O	0.5

Cooling Rating - Aftercooler		Standby
Coolant Flow per Minute	gpm	-
Coolant System Capacity	gal	-
Heat Rejection to Coolant	Btu/min	-

COMBUSTION AIR REQUIREMENT

	Standby
Flow at Rated Power cfm (m³/min)	205 (5.80)

ENGINE

		Standby
Rated Engine Speed	rpm	1800
Horsepower at Rated kW**	hp	80
Piston Speed	ft/min	1559
BMEP	psi	128.5

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes

EXHAUST

		Standby
Exhaust Flow (Rated Output)	cfm (m³/min)	497 (14.1)
Max. Backpressure (Post Turbo)	inHg (Kpa)	1.5 (5.1)
Exhaust Temp (Rated Output - post silencer)	°F (°C)	850 (452)
Exhaust Outlet Size (Open Set)	NPT (Male)	3.0

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

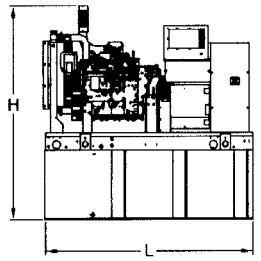
SD050 | 4.5L | 50 kW

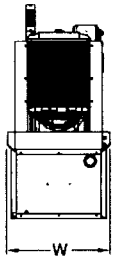
INDUSTRIAL DIESEL GENERATOR SET

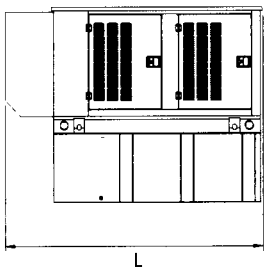
EPA Certified Stationary Emergency

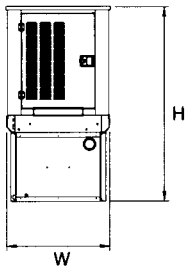
GENERAC | INDUSTRIAL POWER

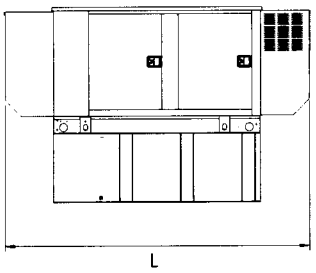
DIMENSIONS AND WEIGHTS*

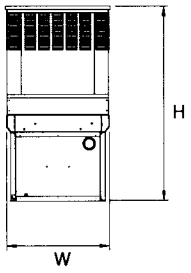


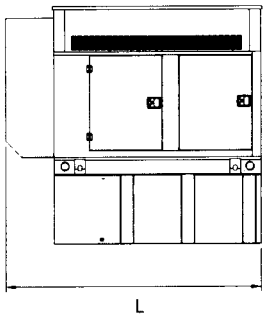


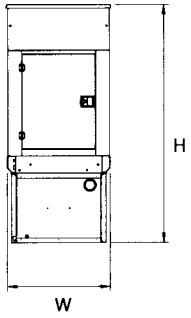












OPEN SET

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dBA*
NO TANK	-	76	37	53	1996	83
13	54	76	37	66	2476	
32	132	76	37	78	2706	
51	211	76	37	90	2915	
72	300	93	37	94	2978	
122	510	117	47	96	3361	

STANDARD ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dBA*
NO TANK	-	95	38	50	2298	78
13	54	95	38	63	2778	
32	132	95	38	75	3008	
51	211	95	38	87	3217	
72	300	95	38	91	3280	
122	510	117	47	93	3663	

LEVEL 1 SOUND ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dBA*
NO TANK	-	112	38	50	2451	70
13	54	112	38	63	2931	
32	132	112	38	75	3161	
51	211	112	38	87	3370	
72	300	112	38	91	3433	
122	510	135	47	93	3816	

LEVEL 2 SOUND ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dBA*
NO TANK	-	95	38	62	2456	68
13	54	95	38	75	2936	
32	132	95	38	87	3166	
51	211	95	38	99	3375	
72	300	95	38	103	3438	
122	510	117	47	105	3821	

*All measurements are approximate and for estimation purposes only. Sound dBA can be found on the sound data sheet. Enclosure Only weight is added to Tank & Open Set weight to determine total weight.

Tank Options

○	MDEQ	OPT
○	Florida DERM/DEP	OPT
○	Chicago Fire Code	OPT
○	IFC Certification	CALL
○	ULC	CALL

Other Custom Options Available from your Generac Industrial Power Dealer

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

SPEC SHEET

6 OF 6

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

Part No 0191740SBY
Rev. B 04/10/15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2017 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT

OFFICE OF TRANSPORTATION AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: **FPT Industrial S.p.A.**
(U.S. Manufacturer or Importer)

Certificate Number: **HFPXL04.5DTD-001**

Effective Date: 05/26/2016

Expiration Date: 12/31/2017

Byron J. Bunker, Division Director
Compliance Division

Issue Date: 05/26/2016

Revision Date: N/A

Model Year: 2017
Manufacturer Type: Original Engine Manufacturer
Engine Family: HFPXL04.5DTD

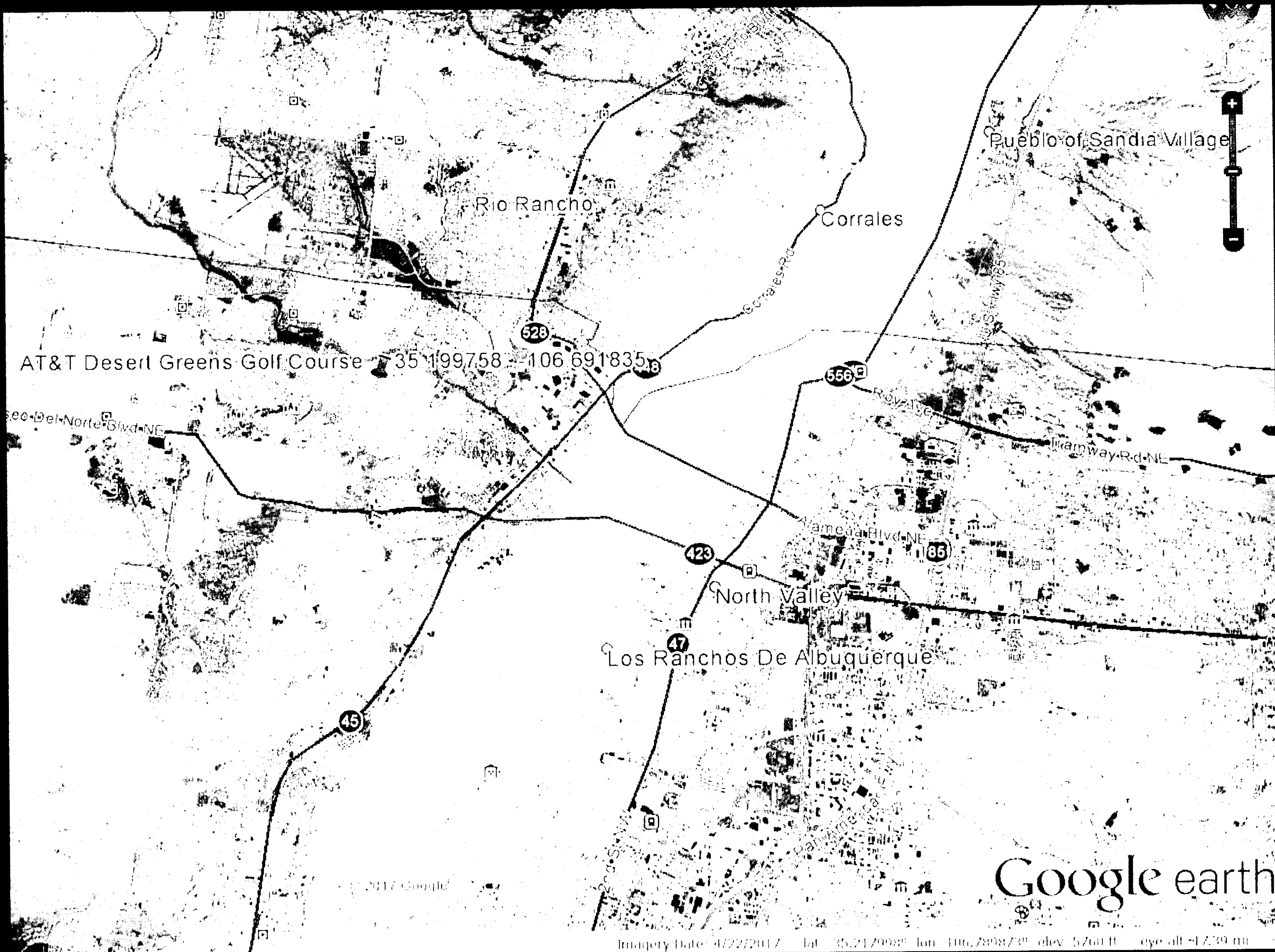
Mobile/Stationary Indicator: Stationary
Emissions Power Category: 56<=kW<75
Fuel Type: Diesel
After Treatment Devices: No After Treatment Devices Installed
Non-after Treatment Devices: No Non-After Treatment Devices Installed

Pursuant to Section 111 and Section 213 of the Clean Air Act (42 U.S.C. sections 7411 and 7547) and 40 CFR Part 60, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following engines, by engine family, more fully described in the documentation required by 40 CFR Part 60 and produced in the stated model year.

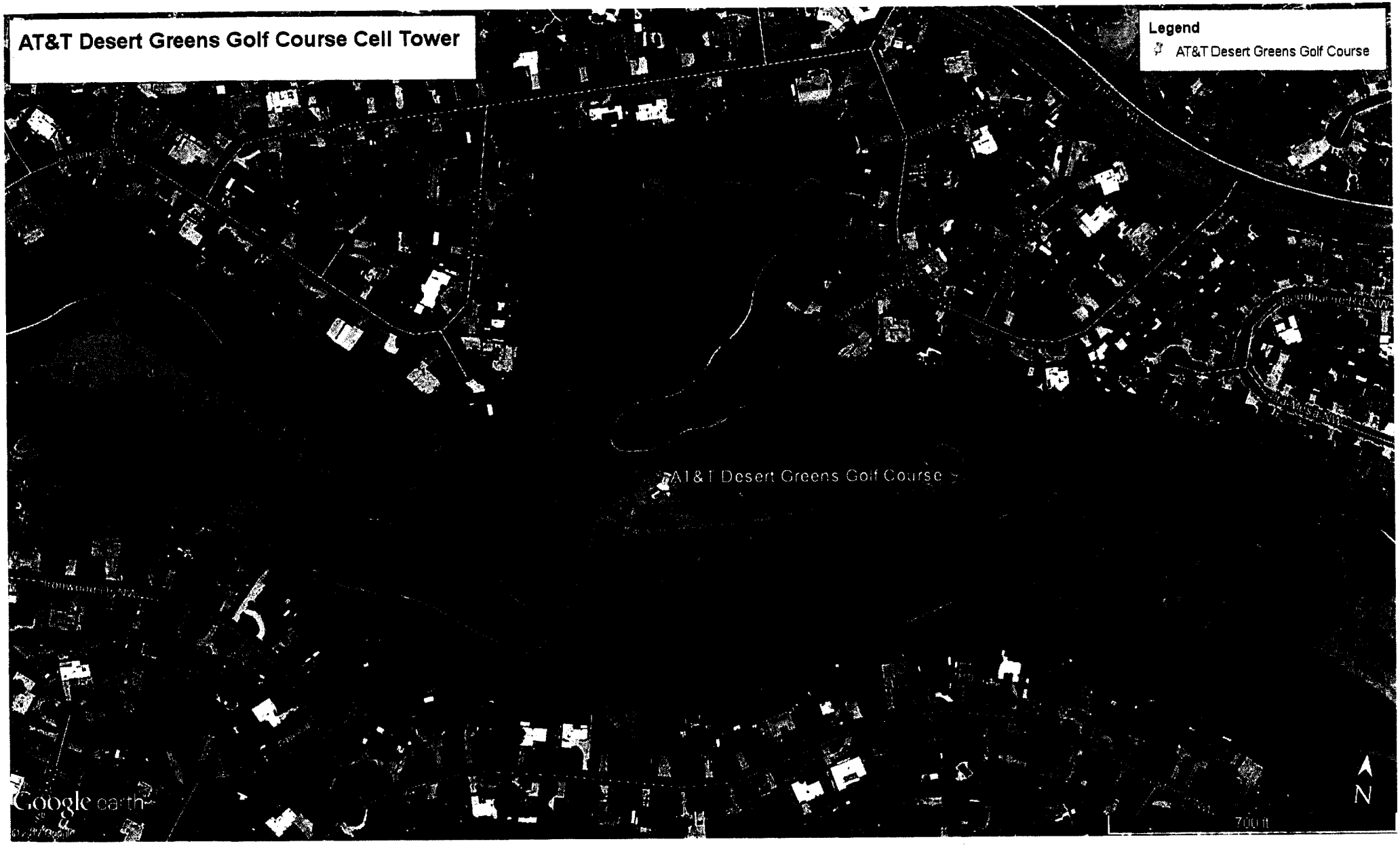
This certificate of conformity covers only those new compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 60 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 60. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 60.

This certificate does not cover engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.



Pueblo of Sandia Village
Rio Rancho
Corrales
Corrales Rd
AT&T Desert Greens Golf Course
35.199758, -106.691835
528
448
556
Roy Ave
Tramway Rd NE
Paseo Del Norte Blvd NE
Alameda Blvd NE
85
423
North Valley
47
Los Ranchos De Albuquerque
45
Google earth


AT&T Desert Greens Golf Course Cell Tower
Legend
AT&T Desert Greens Golf Course
AT&T Desert Greens Golf Course
Google earth
700 ft
N

Sandunie Liyanagamage

From: Sandunie Liyanagamage
Sent: Wednesday, September 27, 2017 3:13 PM
To: 'rich.cederberg@exprealty.com'; 'lfendall@netscape.net'; 'ta_a@msn.com'; 'samralphroxy@yahoo.com'; 'phcassoc@gmail.com'; 'gedison@hoamco.com'; 'croth@swcp.com'; 'johndaileyabq@gmail.com'; 'jfworrall@comcast.net'; 'hlhen@comcast.net'
Cc: Victoria Collis; Gina Hicks; 'Eyerman, Regan V.'
Subject: Pre-permit application notification of neighborhood associations and coalitions - AT&T cell tower
Attachments: Notice of Intent to Construct.pdf

Good afternoon,

Under 20.11.41.13.B NMAC, registered representatives of neighborhood associations and coalitions within a half mile of a facility proposing to construct a new facility must be notified in advance of the permit application. This email and attached Notice of Intent to Construct form serves as such a notice.

The proposed site is an emergency generator which is used to supply backup electrical power to AT&T Mobility's cell tower located at 10035 Country Club Lane NW, Albuquerque, NM 87114. The permit application proposes to permit a 79 horsepower diesel engine. The generator will operate infrequently, primarily during the rare event of a PNM utility outage.

Please see the attached Notice of Intent to Construct form for more information and instructions if you have related questions or comments.

Thank you,
Sandunie

Sandunie Liyanagamage
Consultant

Trinity Consultants
9400 Holly Avenue | Bldg 3 Suite 300 | Albuquerque, NM 87122

Office: **505-266-6611** | Mobile: 404-513-1487
Email: sliyanagamage@TrinityConsultants.com | Website: www.TrinityConsultants.com

Notice of Intent to Construct

Under 20.11.41.13B NMAC, the owner/operator is required to *provide public notice by certified mail or electronic mail to the designated representative(s) of the recognized neighborhood associations and recognized coalitions that are with-in one-half mile of the exterior boundaries of the property on which the source is or is proposed to be located* if they propose to construct or establish a new facility or make modifications to an existing facility that is subject to 20.11.41 NMAC – Construction Permits. **A copy of this form must be included with the application.**

Applicant's Name and Address: New Cingular Wireless PCS, LLC dba AT&T Mobility, PO Box 5095, Rm 4W200M, San Ramon, CA 94583

Owner / Operator's Name and Address: New Cingular Wireless PCS, LLC dba AT&T Mobility, PO Box 5095, Rm 4W200M, San Ramon, CA 94583

Actual or Estimated Date the Application will be submitted to the Department: September 2017

Exact Location of the Source or Proposed Source: 10035 Country Club Lane NW, Albuquerque, NM 87114

Description of the Source: 50 kW emergency generator that provides backup electrical power to the cell tower system during rare PNM utility outages

Nature of the Business: Wireless Telecommunications Cell Tower

Process or Change for which the permit is requested: Permitting a 79 hp diesel-fired generator

Preliminary Estimate of the Maximum Quantities of each regulated air contaminant the source will emit:

Initial Construction Permit

	Pounds Per Hour (lbs/hr)	Tons Per Year (tpy)
CO	0.64	0.16
NOx	0.58	0.14
NOx + NMHC	0.61	0.15
VOC	0.030	0.0076
SO_2	0.16	0.040
TSP	0.051	0.013
PM10	0.051	0.013
PM2.5	0.051	0.013
VHAP	-	-

Net Changes In Emissions

(Only for permit Modifications or Technical Revisions)

	lbs/hr	tpy	Estimated Total TPY
CO	+/-	+/-	
NOx	+/-	+/-	
NOx + NMHC	+/-	+/-	
VOC	+/-	+/-	
SO_2	+/-	+/-	
TSP	+/-	+/-	
PM10	+/-	+/-	
PM2.5	+/-	+/-	
VHAP	+/-	+/-	

City of Albuquerque- Environmental Health Department
Air Quality Program- Permitting Section
Phone: (505) 768-1972 Email: aqd@cabq.gov

Maximum Operating Schedule: Less than 500 hours per year.

Normal Operating Schedule: Less than 500 hours per year.

Current Contact Information for Comments and Inquires:

Name: Valerie Ingraham
Address: AT&T Services, Inc., PO Box 5095, Rm 4W200M, San Ramon, CA 94583
Phone Number: 925-277-6153
E-Mail Address: g43913@att.com

If you have any comments about the construction or operation of the above facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to the address below:

Environmental Health Manager

Stationary Source Permitting

Albuquerque Environmental Health Department

Air Quality Program

PO Box 1293

Albuquerque, New Mexico 87103

(505) 768-1972

Other comments and questions may be submitted verbally.

Please refer to the company name and facility name, as used in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice. Please include a legible mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, if required, the Department's notice will be published in the legal section of the Albuquerque Journal and mailed to neighborhood associations and neighborhood coalitions near the facility location or near the facility proposed location.

City of Albuquerque

Environmental Health Department
Air Quality Program

Public Notice Sign Guidelines

Any person seeking a permit under 20.11.41 NMAC, Authority-to-Construct Permits, shall do so by filing a written application with the Department. *Prior to submitting an application, the applicant shall post and maintain a weather-proof sign provided by the department. The applicant shall keep the sign posted until the department takes final action on the permit application; if an applicant can establish to the department's satisfaction that the applicant is prohibited by law from posting, at either location required, the department may waive the posting requirement and may impose different notification requirements.* **A copy of this form must be submitted with your application.**

Applications that are ruled incomplete because of missing information will delay any determination or the issuance of the permit. The Department reserves the right to request additional relevant information prior to ruling the application complete in accordance with 20.11.41 NMAC.

Name: New Emergency Generator for AT&T's Desert Greens Golf Course Cell Tower
Contact: Mark Roter - General Dynamics
Company/Business: on behalf of New Cingular Wireless PCS, LLC dba AT&T Mobility

☐ ☑ The sign must be posted at the more visible of either the proposed or existing facility entrance (or, if approved in advance and in writing by the department, at another location on the property that is accessible to the public)

- ☐ ☑ The sign shall be installed and maintained in a condition such that members of the public can easily view, access, and read the sign at all times.
- ☐ ☑ The lower edge of the sign board should be mounted a minimum of 2' above the existing ground surface to facilitate ease of viewing

☐ ☑ Attach a picture of the completed, properly posted sign to this document

☐ ☐ **Check here if the department has waived the sign posting requirement.**
Alternative public notice details:

Ver. 11/13